

Syllabus for the subject

of

# **ENGINEERING DRAWING**

(For 3rd & 4th semester)

Under

**CRAFTSMEN TRAINING SCHEME (CTS)**

(For Textile Mechatronics)

Re-Designed in

2015

By

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Ministry of Skill Development & Entrepreneurship

Directorate General of Training

CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE

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## Syllabus of Engineering Drawing for 3rd semester

### For the trade of Textile Mechatronics

SL. No	Topics	Duration
1	Machined components; concept of fillet & chamfer; surface finish symbols.	63 hrs.
2	Screw thread, their standard forms as per BIS, external and internal thread, conventions on the features for drawing as per BIS.	
3	Free hand Sketches for bolts, nuts, screws and other screwed members.	
4	Free hand Sketching of foundation bolts and types of washers.	
5	Standard rivet forms as per BIS (Six types).	
6	Riveted joints-Butt & Lap (Drawing one for each type).	
7	Orthogonal views of keys of different types	
8	Free hand Sketches for simple pipe, unions with simple pipe line drawings.	
9	Concept of preparation of assembly drawing and detailing. Preparation of simple assemblies & their details of trade related tools/job/exercises with the dimensions from the given sample or models.	
10	Free hand sketch of trade related components / parts (viz., single tool post for the lathe, etc.)	
11	Study of assembled views of Vee-blocks with clamps.	
12	Study of assembled views of shaft and pulley.	

## Syllabus of Engineering Drawing for 4th semester

### For the trade of Textile Mechatronics

SL. No	Topics	Duration
1.	Free hand Details and assembly of simple bench vice.	63 hrs.
2	Reading of drawing. Simple exercises related to missing lines, dimensions. How to make queries	
3	Simple exercises relating missing symbols.  Missing views	
4	Simple exercises related to missing section.	
5	Free hand sketching of different types of bearings and its conventional representation.	
6	Free hand sketching of different gear wheels and nomenclature.	
7	Simple exercises related to trade related symbols.	
8	Study of drawing & Estimation of materials.	
9	Basic electrical and electronic symbols	
10	<b>Revision</b>	
11	Examination	